PL 480-SA
JUN 13 '68

CONTENTS

SECTION B—VOL. LXV

No. 1—January 1967

PAGE

Cytomorphological Studies in Autotetraploid *Asparagus officinalis* L. . . . . E. K. Janaki Ammal and B. L. Kaul 1

On Some Interstitial Polychaetes from the Beach Sands of Waltair Coast . . . . . G. Chandrasekhara Rao and P. N. Ganapati 10

Glutamic, Oxaloacetic Transaminase (GOT) Activity in Skeletal Muscles of Some Freshwater Fishes . . . . . D. D. Narawane 16

The Lithology and Sequence of the Quilon Beds . . . . K. K. Menon 20

Seasonal Gonadal Changes in Adult Freshwater Mussel, *Parreysia favidens* Var. *marcens* (Benson) . . . . . V. Y. Patil and D. V. Bal 26

The Anatomy of the Nervous System of the Third Instar Larva of *Musca domestica nebulo* Fabr. (Diptera—Cyclorrhapha—Muscidae) . . . . . D. R. Ranade 34

No. 2—February 1967

Effects of N: P Ratios on the Uptake of Nitrate and Phosphate by Laboratory Cultures of *Trichodesmium erythraeum* (Ehr.) . . . . . V. D. Ramamurthy and S. Krishnamurthy 43

Embryological Studies in the Bromeliaceae. I. *Lindmania penduliflora* (C. H. Wright) Stapf. . . . . K. K. Lakshmanan 49

Observations on the Floral Morphology and Embryology of *Utricularia stricticaulis* Stapf. . . . . G. Shivaramiah 56

Some Observations on the Autecology of *Themeda quadrivalvis* (Linn.) O. Ktze. var. *quadrivalvis* . . . . . S. C. Pandeya 63

Reproductive and Nutritional Cycles of the Crab *Portunus pelagicus* (Linnaeus) (Decapoda : Brachyura) of the Madras Coast . . . . . A. Abdul Rahaman 76

No. 3—March 1967

PAGE

A Study of Some Symplektites from Madurai District, Madras State . . . . . Al. Chidambaram 83

The Nervous System of the Female *Saccharicoccus sacchari* Cockerell (Pseudococcidae : Homoptera) . . . . . R. L. Yadava 94

Heredity *versus* Environment in the Production of Alkaloids in *Rauvolfia serpentina* . . . . . E. K. Janaki Ammal and R. D. Dhar 103

Morphology and Alkaloid Content of Two Races of *Rauvolfia serpentina* from Kerala . . . . . Rajdulari Dhar 106

Variation in the Morphology and Solasodine Content of Two Races of *Solanum incanum* . . . . . Usha Zutshi 108

Interspecific Hybrids in Solanum. I. *Solanum indicum* Linn. and *Solanum incanum* Linn. . . . . Usha Zutshi 111

Anatomy of Normal and Tetracot Seedlings of *Prosopis juliflora* DC. . . . . M. L. Trivedi 114

Studies in Pectic Enzymes of Parasitic Fungi. IX. Effect of Some Chemicals on the Secretion and Activity of Pectic Enzymes Produced by *Alternaria tenuis* . . . . . Vishnu Prasad 119

A Study of Sclereids in the Fertile Parts of Two Members of Cupressaceae . . . . . A. R. Rao and Manju Malaviya 126

No. 4—April 1967

Analytical Study of Abnormal Sori in *Scolopendrium vulgare* Smith . . . . . D. N. Sharma, S. M. Tripathi and A. K. Srivastava 135

Further Contribution to the Anatomy of the Alismataceae: *Sagittaria guayanensis* H.B.K. SSP. *Lappula* (D. Don) Bogin . . . E. Govindarajalu 142

Morphological Studies in Sapotaceae. I. Anatomy of the Node . . . . . P. S. Kapoor 153

A New *Tylophora* R. Br. (Asclepiadaceae) from South India . A. N. Henry 161

A Note on the Induced Hairiness in Colchicine and Colchicine-*cum*-Irradiated Plants of *Zea mays* . . . . . E. A. Siddiq 165

Correlation of Optical Properties and Chemical Composition of Cordierites . . . . . G. S. Srivastava and S. V. L. N. Rao 167

No. 5—May 1967

PAGE

Structure and Organization of the Shoot Apex of *Picea smithiana* (Wall.) Boiss. . . . . . J. J. Shah and K. S. Thulasy 175

Salivary Gland Chromosomes in Four Species of Tropical Anophelines: *A. subpictus, A. vagus, A. hyrcanus nigerrimus* and *A. barbirostris* . . . . . B. N. Chowdaiah, T. T. Avirachan and P. L. Seetharam 181

Development of the Female Gametophyte and Embryo in *Fimbristylis diphylla* Vahl. . . . . . Y. S. Murty and V. Kumar 185

Effect of Viomycin on Nucleic Acid and Protein Content of *Aerobacter aerogenes* . . . . . K. C. Agarwal and J. P. Shukla 192

Description of Two New Species of the Genus *Glossimetra* Mehra, 1937 (Plagiorchiidae : Trematoda) . . . . . M. P. Dwivedi 200

Embryological Studies in *Myriophyllum intermedium* DC. . . . . . M. Nagaraj and B. H. M. Nijalingappa 210

Some Aspects of Histogenesis in the Leaf of *Phoenix sylvestris* L. . . . . . D. Padmanabhan 221

No. 6—June 1967

Morphogenesis in *Arthrobacter* Species . . . . . M. F. Mullakhanbhai and J. V. Bhat 231

The Sphyraenidae of the Indian Coasts. I. *Sphyraenella chrysotaenia* (Kulnzinger), 1884 and *Sphyraena qenie* Klunzinger, 1870 . . . . . S. Dutt and B. V. Seshagiri Rao 238

Embryological Studies in *Cleome monophyll* Linn. . . . . A. V. N. Rao 249

Effect of the Substitution of 3-Methyl Group on the Carcinogenic Activity of 2-Naphthylamine . . . . . M. G. Kanekar, T. B. Panse and G. V. Talwalkar 257

Structure and Development of Seedcoat in Cucurbitaceae. I. Seeds of *Biswarea* Cogn., *Edgaria* Clarke and *Herpetospermum* Hook. f. . . . . . Dalbir Singh 267

Colchicine Induced *Chromosome mosaic* in *Sorghum vulgare* L. . . . . . E. A. Siddiq 275